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00-214816-25
2-24F-12



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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

S. Todd Johnson

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Margaret Campbell-Jones

Attest

10996 U.S. PTO
09/835926





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United States Patent [19]

[11] Patent Number: 6,026,679

Holmes et al.

[45] Date of Patent: Feb. 22, 2000

[54] METHOD TO INFER ENGINE COOLANT TEMPERATURE IN CYLINDER HEAD TEMPERATURE SENSOR EQUIPPED VEHICLES

[75] Inventors: John William Holmes, Eastpointe; Michael John Cullen, Northville; Randall Adam Betki, Grosse Ile, all of Mich.

[73] Assignee: Ford Global Technologies, Inc., Dearborn, Mich.

[21] Appl. No.: 09/037,508

[22] Filed: Mar. 10, 1998

[51] Int. Cl.⁷ G01L 3/26; G01K 1/08; B60Q 1/00; F01P 5/14

[52] U.S. Cl. 73/117.3; 73/116; 374/145; 340/449; 123/41.15

[58] Field of Search 73/116, 117.3; 123/41.15; 340/449, 439; 374/144, 145

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[57] ABSTRACT

The present invention provides a method of inferring the engine coolant temperature in cylinder head temperature sensor equipped vehicles including the steps of measuring the cylinder head temperature, calculating the engine coolant temperature from the measured cylinder head temperature as a function of at least one vehicle operational state, generating a signal for the calculated engine coolant temperature, and sending the generated signal to a display.

18 Claims, 2 Drawing Sheets

